

## ABSTRACT

An online bearing monitor is provided that is threaded to the lubrication port of a bearing of a machine. The online bearing monitor of the present invention contains a 5 temperature and vibration sensor, a lubrication level sensor optionally detachably coupled to the lubrication device, on board intelligence, and both wire and wireless electronics. The monitor provides for two-way communication to detect the lubrication and maintenance needs of a machine bearing. The monitor processes and stores temperature and vibration signals on site to determine corrective measures. The 10 corrective measures can be conveyed wire or wirelessly to remote stations.